Technical-Data-Sheet

UG

Two-component PUR cast resin

flame retardant

Cast resin UG meets the higher fire protection requirements and was specially developed for use in mining. It meets the requirements for cast resin moulding according to DIN VDE 0291 Section 2 on filling the cable sets or parts thereof for the following types of cables: Power cables with a nominal voltage up to 1 kV - GNH, power cables with a nominal voltage up to 10 kV - GMH and telecommunication and signal cables - GFH. REACH Regulation on the restriction of diisocyanates (for EU countries only). The European Commission amended Annex XVII of the REACH Regulation (EC) (new number 74) with Regulation (EU) 2020/1149, which entered into force on 24 August 2020. In accordance with the new REACH Regulation, appropriate training will be required prior to the industrial or professional use of diisocyanates, adhesives and sealants as of 24 August 2023. All information regarding training materials and training courses is available on the ISOPA/ALIPA website https://www.safeusediisocyanates.eu/



Product description

Article name	UG 143
Material number	125287
Characteristics	Favourable flow properties
	High hydrolysis resistance
	Stabilized against UV rays
	Halogen-free
	Resistant to alkaline earth elements
	Resistant to chemical agents
	Flame retardant
	Not harmful to the environment
	Low smoke emission in case of fire
	No fracturing under electrical stress
	Excellent adhesion to all cable materials
	No fracturing under mechanical tension
	Excellent adhesion to all cable materials
	No fracturing under mechanical tension
Family notes	Other sizes available on request.

Technical data

Test standards	DIN VDE 0472-804
	DIN VDE 0472-814
	DIN VDE 0472-813
	DIN VDE 0278-631-1
Content	143 ml
Flash point of cast resin component (open cup)	> 200 °C
Flash point of reactant (open cup)	> 200 °C
Processing time (pot life) 300 ml mixture 5 °C	23 minutes
Processing time (pot life) 300 ml mixture 23 °C	16 minutes
Processing time (pot life) 300 ml mixture 35 °C	12 minutes
Reaction temperature max	78 °C
Total volume shrinkage during curing	2.5 %
Impact strength	> 20 kJ/m²
Water absorption in warm water (42 d at 50 °C)	250 mg
Electrolytic corrosion	A 1,2
1 minute test voltage at 23 °C	38 kV
1 minute test voltage at 80 °C	35 kV
Dielectric dissipation factor at 23 °C and 1 kHz	0.02
Dielectric dissipation factor at 23 °C and 50 Hz	0.03
Dielectric dissipation factor at 50 °C and 50 Hz	0.06
Dielectric dissipation factor at 80 °C and 50 Hz	0.15
Dielectric constant at 23 °C and 1 kHz	4.1
Dielectric constant at 23 °C and 50 Hz	4.3
Dielectric constant at 50 °C and 50 Hz	5.5
Dielectric constant at 80 °C and 50 Hz	7.2
Tracking resistance	KA 3c
Hardness	80 Shore D
Density	1.4 g/cm³
Density cured casting compound (associated standard)	ISO 1183-1

Logistics data

Delivery scope	Cast resin 143ml
Shelf life	24 Month
Shelf life description	In aluminium bag
Storage temperatur max	35 °C
Storage temperatur min	15 °C
Country of origin	Germany
Customs tariff number	39095090

EAN-UPC	4010311008431			
Base quantity	1	1	420	
Base unit of measure	Piece	Piece	Piece	
Alternate quantity	1	1	1	
Alternative unit of measure	Piece	Case	Pal. OW	
Lenght	186	186	1200	
Width	152	152	800	
Height	27	27	550	
Dimension unit	Millimetres	Millimetres	Millimetres	
Volume	0.763	0.763	528	
Volume unit	Cubic decimetres	Cubic decimetres	Cubic decimetres	
Gross weight	0.271	0.271	132.02	
Net weight	0.271	0.271	113.82	
Weight unit	Kilogram	Kilogram	Kilogram	